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(54) Title: LONG CHAIN BRANCHING POLYPROPYLENE

(57) **Abstract:** The invention discloses a process for producing polypropylene having increased melt strength by irradiating polypropylene in pellet form with an electron beam having an energy of from 0.5 to 25 MeV, delivered by an accelerator having a power of from 50 to 1000 kW and with a total radiation dose of from 10 to 120 kGray, characterised in that the irradiation is carried out in the presence of air.

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